

LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



For The Technical Direction Of The LTPP Program



Program Area: MATERIALS

Directive Number: M-13

Date: 7 January 1997

Subject: Protocol Data Sheet T56

General

This materials directive No. M-13 transmits revisions to the "*SHRP-LTPP Interim Guide for Laboratory Materials Handling and Testing*." The following changes should be incorporated in the Testing Guide:

- Replace page vi of the Preface
- Replace page x of the Table of Contents
- Replace Data Sheet T56 (Appendix C.2)
- Replace pages P56-3 and P56-4 (Appendix E.2)

This laboratory testing data sheet has been amended to include an entry for the "Specimen Mass (moist)" and "Specimen Mass (oven-dry)." Previously, this data sheet only had an entry space for "Specimen Mass" in general.

IMS Related

There are currently records in the database for this test procedure (*TST_SS08*). IMS personnel in each RCOG should review the current data and amend as appropriate. In some cases, there will be a note in the comments section documenting whether the value reported for specimen mass is the dry or moist value. In other cases, IMS personnel may have to retrieve the paper data sheets

and determine if it is the moist weight or oven-dry weight based on notes on the data sheet. If, after review of the data in the IMS and the paper data sheets, it cannot be determined whether the value for specimen mass reported in the IMS is the dry or moist specimen mass, the values for the moist and dry specimen mass may be determined (or checked) from the following (assuming the values for the specimen height, specimen diameter, moisture content and dry density are given).

$$(1) \quad M_2 = [DD \times V]/3.810$$

where:

M_2 = Specimen Mass, oven dry, grams

DD = dry density, pcf

3.810 = factor transforming pcf to gm/in³

V = Specimen Height x $[B \times (\text{Diameter}/2)^2]$, in³

$$(2) \quad M_1 = [M_2 \times (100+w)]/100$$

where:

M_1 = Specimen Mass, moist, grams

M_2 = Specimen Mass, oven dry, grams

w = moisture content, % (15% moisture would be expressed as 15, not .15)

Specifications will be sent to SAIC to include the revised fields in the IMS.

Any questions regarding this directive should be submitted to the FHWA Pavement Performance Division with a copy to the LTPP Technical Assistance Contractor (TAC).

Prepared by: Aramis López, Jr.

Approved by:

Monte Symons
LTPP Team Leader